

Dr. Robin D. Rogers

President/Owner/Founder, 525 Solutions, Inc., Tuscaloosa, AL, USA

Research Professor, The University of Alabama, Tuscaloosa, AL, USA

Adjunct Professor, McGill University, Montreal, QC, Canada

Honorary Professor, Institute for Process Engineering, Chinese Academy of Sciences, Beijing, China

Founding Editor-in-Chief, *Crystal Growth & Design*

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Date of Birth: March 4, 1957

Schools Attended and Degrees:

1975-1978: The University of Alabama, Tuscaloosa, AL; Chemistry Honors student; B.S. Degree in Chemistry (ACS); Summa Cum Laude.

1978-1982: The University of Alabama, Tuscaloosa, AL; Ph.D. in Inorganic Chemistry; Research Advisor: Professor Jerry L. Atwood.

Positions:

Active

- 2004-: Founder, President, and Owner, 525 Solutions, Inc., Tuscaloosa, AL, USA
- 2009-: Honorary Professor, Institute for Process Engineering, Chinese Academy of Sciences, Beijing, China
- 2017-: Research Professor, The University of Alabama, Tuscaloosa, AL, USA
- 2017-: Adjunct Professor, McGill University, Montreal, QC, Canada
- 2017-: Co-founder and Co-owner, Wyonics LLC, Laramie, WY, USA

Inactive

- 1982-1996: Assistant Professor, Associate Professor (1987), Professor (1994), Presidential Research Professor (1995), Northern Illinois University, DeKalb, IL, USA
- 1996-2014: Professor, Director of the Center for Green Manufacturing (1998-), Distinguished Research Professor (2004-), Robert Ramsay Chair of Chemistry (2005-), The University of Alabama, Tuscaloosa, AL, USA
- 2007-2009: Chair of Green Chemistry and Co-Director of the QUILL Research Centre, The Queen's University of Belfast, Belfast, Northern Ireland, United Kingdom
- 2015-2017: Adjunct Professor (2015-2016), Adjunct Faculty (2016-), The University of Alabama, Tuscaloosa, AL, USA
- 2015-2017: Canada Excellence Research Chair in Green Chemistry and Green Chemicals, McGill University, Montreal, QC, Canada

Former Adjunct, Honorary, and Visiting:

- 1982 (summer): Visiting Assistant Professor, The University of Alabama, Tuscaloosa, AL
- 1991-1998: Resident Associate Guest (1991), Visiting Scientist (1992), Faculty Appointee (1993-1997), Guest Appointee (1997), Argonne National Laboratory, Argonne, IL, USA
- 1995-1996: Adjunct Professor, The University of Alabama, Tuscaloosa, AL, USA
- 1996-1997: Adjunct Professor, Northern Illinois University, DeKalb, IL, USA
- 2000 & 2006: Visiting Professor, Université Louis Pasteur, Strasbourg, France
- 2004: Adjunct Professor, Polymer and Fiber Engineering, Auburn University, Auburn, AL, USA
- 2004: Adjunct Professor, Department of Biological Sciences, The University of Alabama, Tuscaloosa, AL, USA

Institute for Process Engineering, Beijing, China
2014: Adjunct Professor, McGill University, Montreal, QC, Canada

Memberships and Offices in Societies:

- Phi Beta Kappa; Sigma Xi, American Nuclear Society; American Crystallographic Association; American Institute of Chemical Engineers; Materials Research Society; American Association of Crystal Growth; Fellow of the American Association for the Advancement of Science; Fellow of the Royal Society of Chemistry; Chemical Institute of Canada; National Academy of Inventors.
- American Chemical Society: Rock River Local Section: Chairman Elect (Program Chairman), 1983-84; Chairman, 1984-86; Executive Committee, 1986-87; Secretary-Treasurer, 1988. Separation Science and Technology Subdivision (Industrial and Engineering Chemistry (I&EC)): Program Committee, 1992-2005; Executive Committee, 1993-2006; Vice Chair-Elect, 1993; Chair-Elect, 1994; Chair, 1995; Past-Chair, 1996. Practical Pollution Prevention Subdivision (I&EC): Co-Chair, 1998-99. Green Chemistry & Engineering Subdivision (I&EC): Program Committee, 2000-2006. I&EC Division: Program Committee, 1994-2002; Membership Committee (Academic Chemists Task Force Chair), 1996-2000; Executive Committee, 1995-2006; Program Secretary, 1995-98 ; Chair-Elect, 1998; Chair, 1999; Past-Chair, 2000; Parliamentarian, 2004-2006; I&EC Fellow, 2012. Committee on Science, 2004-06; Fellow of the American Chemical Society, 2009; Committee on Environmental Improvement, Associate 2010-2011; Member 2011-.

Advisory Boards:

- Scientific Advisory Board, EIChrom Industries, Inc., Darien, IL, 1995-2000.
- The University of Alabama College of Arts and Sciences Leadership Board, 1997-2002.
- Technology Review Council, Environmental Technology Demonstration and Commercialization Center (ETDCC), Texas City, TX, 1998-2000.
- Scientific Advisory Board, U.S. Department of Energy Joint Bioenergy Institute, Berkeley, CA, 2010-
- Scientific Advisory Board, Alkermes, Inc., Waltham, MA, 2012.
- International Advisory Board, CICECO: Aveiro Institute of Materials, Aveiro, Portugal, 2017-.

Editorial Boards and Editorships:

Active

- *Separation Science and Technology*: Associate Editor, 1996-99; Editorial Board 1999-
- *Crystal Growth & Design*: Founding Editor-in-Chief, 2000-
- *Solvent Extraction and Ion Exchange*, Editorial Board, 2002-
- *Green Chemistry*, Advisory Board, 2002-
- *Chemical Communications*, Advisory Board, 2005-
- *ChemSusChem*, International Advisory Board, 2008-
- *Chemistry Letters*, Advisory Board, 2010-
- *Chimica Oggi/Chemistry Today*, Scientific Advisory Board, 2014-
- *Green Energy & Environment*, Advisory Board, 2016-

Inactive

- *Journal of Crystallographic and Spectroscopic Research*: Editorial Board, 1989-93; Associate Editor, 1993
- *Journal of Chemical Crystallography*: Associate Editor, 1994-96; Editor, 1996-2000
- *Crystal Engineering*: Founding Co-Editor, 1998-99
- *Industrial & Engineering Chemistry Research*: Editorial Board, 1999-2001
- *Journal of Chromatography, B*, Guest Editor, Volume 743 (1 + 2), 2000
- *Accounts of Chemical Research*, Guest Editor (with G. A. Voth), Special Issue on Ionic Liquids, Volume 40(11), 2007
- *Australian Journal of Chemistry*, Guest Editor (with K. R. Seddon), Research Front on Crystal Engineering,

- *Separation Science & Technology*, Guest Editor (with H. Rodriguez and J. Chen), Special Issue on Ionic Liquids (2012).
- *Chemical Communications* Guest Editor (with D. MacFarlane and S. Zhang), Special Issue on Ionic Liquids (2012).
- *Science China – Chemistry* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Catalysis Today* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Green Chemistry and Sustainable Technology*, Springer, Heidelberg, Germany, Book Series Editor (with L.-N. He, D. Su, P. Tundo, and Z. C. Zhang).

National Academy of Sciences Committees:

- National Academy of Sciences Board on Radioactive Waste Management Committee on Long Term Research Needs for High-Level Waste at Department of Energy Sites, 1999-2001.
- National Academy of Sciences Board on Radioactive Waste Management Committee on Risk-Based Approaches for Transuranic and High-Level Radioactive Waste, 2003-2005.
- National Academy of Sciences Board on Radioactive Waste Management Committee Development and Implementation of a Cleanup Technology Roadmap, 2007-2009.

Awards:

- Northern Illinois University Outstanding Faculty Advisor - 1993
- Northern Illinois University Presidential Research Professor – 1995
- American Chemical Society Newsmaker Award – 2001 (“ACS Newsmakers honored in Chicago,” *Chemical & Engineering News*, September 24, 2001, p 49.)
- The University of Alabama College of Arts & Sciences Leadership Board Fellow – 2002-2005
- The University of Alabama Burnum Distinguished Faculty Award – 2003.
- The University of Alabama Distinguished Research Professor – 2004
- The University of Alabama Robert Ramsay Chair of Chemistry - 2005
- 2005 Presidential Green Chemistry Challenge Award (Academic): “A Platform Strategy Utilizing Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials,” – 2005 (Ritter, S. K. “Green Success,” *Chemical & Engineering News*, June 27, 2005, pp 40-43.)
- Fellow of the Royal Society of Chemistry - 2006
- The University of Alabama Frederick Moody Blackmon – Sarah McCorkle Moody Outstanding Professor Award - 2009
- Fellow of the American Chemical Society – 2009
- Chinese Academy of Sciences Visiting Senior Scientist, Institute for Process Engineering, Beijing, China - 2010
- American Chemical Society Award in Separations Science and Technology – 2011
- Fellow of the American Chemical Society Division of Industrial & Engineering Chemistry - 2012
- Fellow of the American Association for the Advancement of Science – 2012
- Paul Walden Award in Ionic Liquids, Presented by the German Science Foundation Priority Program on Ionic Liquids (SPP 1191) – 2013
- Thomson Reuters Highly Cited Researchers List 2014, 2015 (ranking among the top 1% most cited in chemistry).
- R&D100 Award for “U Grabber” 2016 (525 Solutions with Oak Ridge National Laboratory).
- Max Bredig Award in Molten Salt and Ionic Liquid Chemistry, Presented by the Physical and Analytical Electrochemistry Division of the Electrochemical Society – 2018.

Student Awards:

- Ann E. Visser: American Institute of Chemical Engineers Separations Division Graduate Student Award in Solvent Extraction – 2002

(“2003 Hancock Award Honors Student Research,” *Chemical & Engineering News*, July 7, 2003, pp 67-68.)

Research Interest:

Utilizing Ionic Liquids and Green Chemistry for Sustainable Technology Through Innovation and Translation to Society. Major thrusts include: **Materials:** Advanced polymeric and composite materials from biorenewables to eliminate synthetic plastics; **Separations:** Novel strategies for separation and purification of value added products from biomass; **Energy:** New lubricant technologies and selective separations; **Medicine/Agrochemicals/Nutraceuticals:** Elimination of waste while delivering improved performance and new applications of pharmaceuticals, agrochemicals, and nutraceuticals.

Statistics:

- A. Refereed Publications: > 790
- B. Citations; H-Index; i10 Index: > 40,000; 88; 530
- C. Patents: 26 issued (plus numerous foreign equivalents); 22 submitted; 15 licensed
- D. Books Edited: 14
- E. Non-Refereed Reviews, Reports, and Articles: 79
- F. Meetings (Symposia) Organized: 34 (39)
- G. Presentations (including students and collaborators) before National and International Meetings: 956
- H. Presentations (including students and collaborators) before Regional Meetings: 123
- I. Seminars: 242
- J. PhD (thesis MS) degrees supervised: 28 (4)

Financial Disclosure:

Dr. Robin D. Rogers has partial ownership of 525 Solutions, Inc., Mari Signum Ltd., Mari Signum Texas LLC, Wyonics LLC, and Iolitec, Inc. in addition to financial interest in patents and patent applications through The University of Alabama and McGill University.

Meetings Organized:

- Chair, *23rd Great Lakes Regional American Chemical Society Meeting*, DeKalb, IL, 1990.
- Conference Chair, *11th International Conference on Partitioning in Aqueous Two-Phase Systems: The Expanding Boundaries of Aqueous Two-Phase Partitioning: Fundamentals and Applications of Environmentally-Benign Polymers in Biological, Industrial and Environmental Processes*, Gulf Shores, AL June 27-July 2, 1999. (Conference URL: <http://bama.ua.edu/~rdrogers/aq2phase/11thconf.html>.)
- Co-Director (with K. R. Seddon and S. Volkov), NATO Advanced Research Workshop: *Green Industrial Applications of Ionic Liquids*, Crete, Greece, April 12-16, 2000. (Conference URL: <http://bama.ua.edu/~rdrogers/NATO>.) (Highlighted in Freemantle, M. "Eyes On Ionic Liquids," *Chemical & Engineering News*, May 15, 2000, pp 37-50.)
- Organizer, *Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering*, Mobile, AL July 27-28, 2000. (Conference URL: <http://bama.ua.edu/~rdrogers/IOF/Mobile>.)
- Co-Vice Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Oxford, United Kingdom, September 8-13, 2002.
- Co-Chair (with A. S. Myerson, S. M. Reutzel-Edens, and R. J. Davey), ACS ProSpectives Series: *Polymorphism in Crystals: Fundamentals, Prediction, and Industrial Practice*, Tampa, FL, February 23-27, 2003.
- Co-Chair (with A. S. Myerson, and S. M. Reutzel-Edens), ACS ProSpectives Series: *Polymorphism in Crystals*, Tampa, FL, February 8-11, 2004.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2004 (Workshop URL: <http://www.bama.ua.edu/~rdrogers/ILWorkshop04/>).
- Co-Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Bristol, RI, July 4-9, 2004 (Conference URL: <http://bama.ua.edu/~rdrogers/GreenChemistryGRC04>).
- U.S. Organizer, NSF Joint China-USA Workshop *Determining the Grand Challenges of Green Chemistry Development and Implementation*, Beijing, China, May 27-31, 2005.
- Organizer, EPA/Green Chemistry Institute Workshop *Incorporating Toxicology into the Design Criteria for New Ionic Liquids Synthesis*, Washington, DC, June 9-10, 2005.
- Program Chair, 2nd International Conference on Green and Sustainable Chemistry; 9th Annual Green Chemistry and Engineering Conference: *Taking Measure of Green Progress: Opportunities to Meet Global Challenges*, Washington, DC, June 20-24, 2005.
- Program Chair, *2005 Rare Earth Research Conference*, Keystone, CO, June 26-30, 2005.
- Co-Organizer (with D. A. Dixon), *Alabama Actinide Day*, April 6, 2005, Tuscaloosa, AL.
- Local Organizer, *Air Force Office of Scientific Research Ionic Liquids Research Workshop*, Tuscaloosa, AL, February 7-8, 2006.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2006 (Workshop URL: <http://www.bama.ua.edu/~rdrogers/ILWorkshop06/>).
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Process Crystallization in the Pharmaceutical and Chemical Industries*, Philadelphia, PA, April 25 - 27, 2006.
- Co-Chair (with M. Maase) Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Orlando, FL, December 11-13, 2006.
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Crystallization Process Development: Case Studies & Research*, Boston, MA, February 25-27, 2007.
- Organizing Committee (with K. R. Seddon and J. F. Brennecke), *Biodegradability and Toxicity of Ionic Liquids*, Berlin, Germany, May 6-9, 2007.
- Chair, Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Prague, Czech Republic, October 16-18, 2007.
- Co-Chair (with M. Hong), *5th Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of Crystal Growth & Design*, Fuzhou, China, October 25-31, 2007.

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